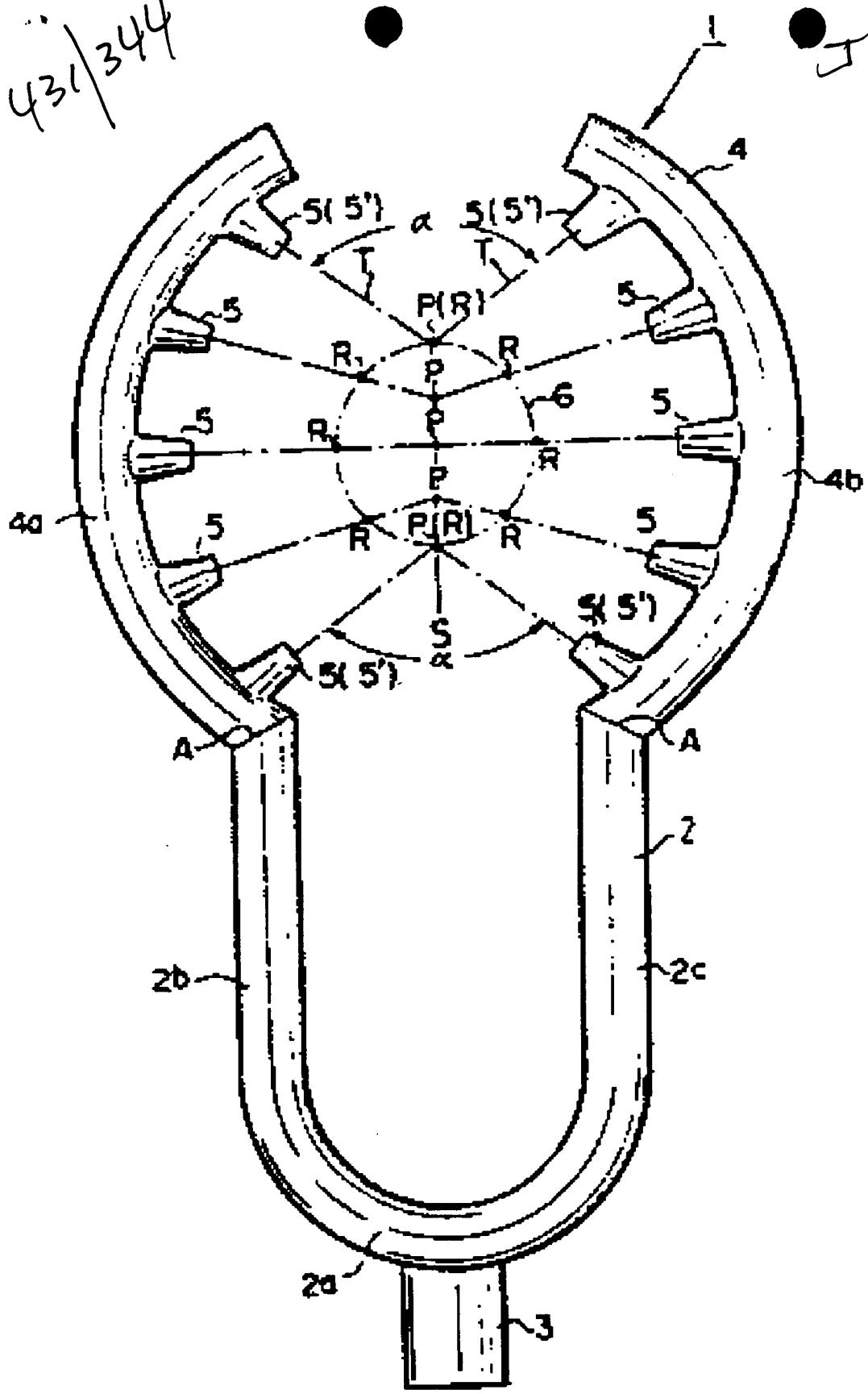


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PUB-NO: JP362102015A

DOCUMENT-IDENTIFIER: JP 62102015 A

TITLE: MULTI-HOLE TYPE RING-SHAPE BURNER FOR STEEL HEATING

PUBN-DATE: May 12, 1987

INVENTOR-INFORMATION:

NAME

SUYAMA, YOSHIHISA

INT-CL\_(IPC): F23D014/58

ABSTRACT:

PURPOSE: To prevent effectively the generation of heating nonuniformity at a periphery, a core part, oxidation on a metal surface, etc. in steel heating by arranging nozzle tips in such a way that uniform heating can be carried out at heating points distributed proportionally on a steel periphery surrounding the steel with gas flames and heating can be progressed toward each point distributed proportionally on the center line of the steel.

CONSTITUTION: In a multi-hole type ring-shape burner 1 for steel heating where the same number of nozzle tips 5 are placed in ring-shape arrangement at the inner circumferential surfaces of arc-shape tip bearing pipes 4a, 4b respectively and also placed symmetrically in the right and left sides in regard to the center line S of a steel 6 as a border, the axis of each tip 5 is arranged in such a way as the axis of a tip 5 in one side in regard to the line S crosses the axis of a tip 5 in the other side at each point distributed proportionally on the line S. Further each nozzle tip 5' placed at the both ends among the nozzle tips in the pipe 4a installed in one side in regard to the line S and each nozzle tip 5' placed at the both ends among the nozzle tips in the other pipe 4b in regard to the line S are arranged in such a way that the axes T of both tips 5' cross respectively at the intersection points between the line S and the peripheral surface of the steel.

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CONSTITUTION: In a multi-hole type ring-shape burner 1 for steel heating where the same number of nozzle tips 5 are placed in ring-shape arrangement at the inner circumferential surfaces of arc-shape tip bearing pipes 4a, 4b respectively and also placed symmetrically in the right and left sides in regard to the center line S of a steel 6 as a border, the axis of each tip 5 is arranged in such a way as the axis of a tip 5 in one side in regard to the line S crosses the axis of a tip 5 in the other side at each point distributed proportionally on the line S. Further each nozzle tip 5' placed at the both ends among the nozzle tips in the pipe 4a installed in one side in regard to the line S and each nozzle tip 5' placed at the both ends among the nozzle tips in the other pipe 4b in regard to the line S are arranged in such a way that

the axes T of both tips 5' cross respectively at the intersection points between the line S and the peripheral surface of the steel.